FINAL PROJECT

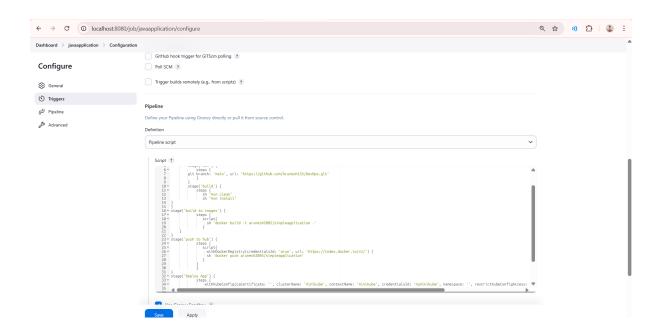
DAY-06

JAVA-APPLICATION DEPLOYMENT IN MINIKUBE

CREATION OF A PIPELINE PROJECT

🦣 Jenkins				Q	① ② admir	n ∨ 🕞 log out
Dashboard >						
+ New Item Build History	All +				0	Add description
Project Relationship Check File Fingerprint	s w	Name ↓	Last Success	Last Failure	Last Duration	1
Manage Jenkins		java-application	23 hr #10	1 day 0 hr #8	30 sec	\triangleright
My Views		maven	2 days 21 hr #3	2 days 22 hr #2	40 sec	\triangleright
Build Queue No builds in the queue.		simpletomcatapplication	2 days 20 hr #12	2 days 20 hr #11	34 sec	>
Build Executor Status 0/2 V	icon: S M	L				000
					REST API	Jenkins 2.492.2

PIPELINE SCRIPT



PIPELINE SCRIPT CODE

```
pipeline {
  agent any
  stages {
    stage('scm') {
      steps {
    git branch: 'main', url: 'https://github.com/Arunesh155/DevOps.git'
      }
    }
    stage('build') {
      steps {
        sh "mvn clean"
        sh "mvn install"
}
}
stage('build to images') {
      steps {
        script{
         sh 'docker build -t arunesh2005/simpleapplication .'
        }
  }
}
stage('push to hub') {
      steps {
        script{
         withDockerRegistry(credentialsId: 'arun', url: 'https://index.docker.io/v1/') {
         sh 'docker push arunesh2005/simpleapplication'
        }
```

```
}
}
stage('Deploy App') {
    steps {
        withKubeConfig(caCertificate: ", clusterName: 'minikube', contextName: 'minikube', credentialsld: 'myminikube', namespace: ", restrictKubeConfigAccess: false, serverUrl: 'https://192.168.39.226:8443'){
        sh 'kubectl apply -f deploy.yaml --validate=false'
        }
}
}
```

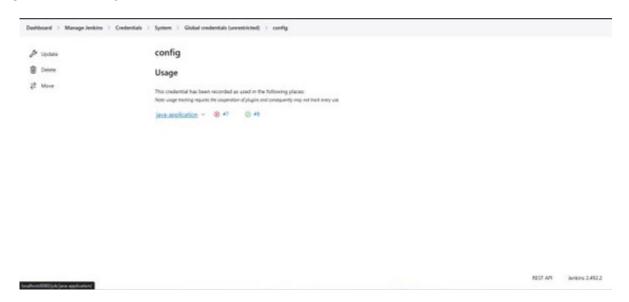
DEPLOYMENT FILE

DEPLOY.YAML

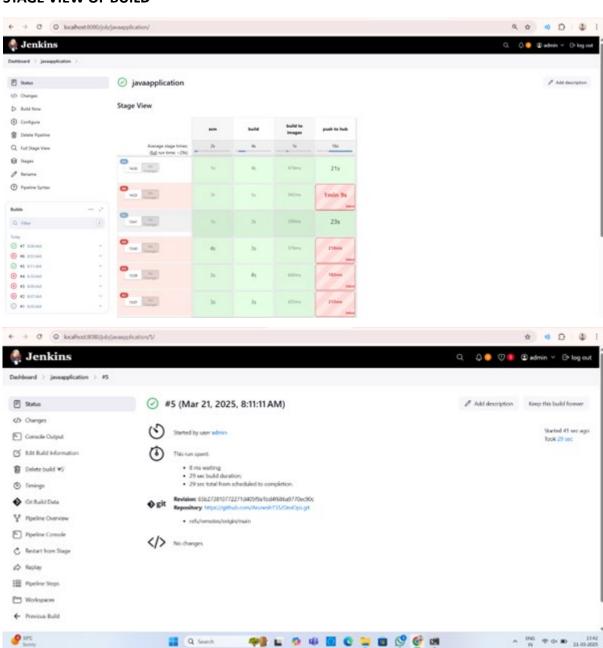
```
apiVersion: apps/v1
kind: Deployment
metadata:
name: my-deploy
labels:
name: my-deploy
spec:
replicas: 5
selector:
matchLabels:
apptype: web-backend
```

```
strategy:
  type: RollingUpdate
 template:
  metadata:
   labels:
    apptype: web-backend
  spec:
   containers:
   - name: my-app
    image: arunesh2005/simpleapplication
    ports:
    - containerPort: 9000
apiVersion: v1
kind: Service
metadata:
 name: my-service8
 labels:
  app: my-service
spec:
type: NodePort
 ports:
  - port: 9000
   targetPort: 8080
   nodePort: 30002
 selector:
  apptype: web-backend
```

CRENADENTIALS

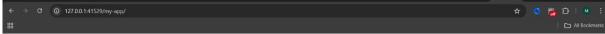


STAGE VIEW OF BUILD



```
Dashboard > javaapplication > #5
                                                             [Pipeline] (
[Pipeline] sh
+ docker push arunesh2005/simpleapplication
                                                              Using default tag: latest
                                                              The push refers to repository [docker.io/arunesh2005/simpleapplication]
                                                              2fc@l@lb6b11: Preparing
62fflacacee4: Preparing
                                                              34f7184834b2: Preparing
                                                              5836ece05bfd: Preparing
                                                              72e838a4dff5: Preparing
                                                              62fflacacee4: Layer already exists
34f7l8683462: Layer already exists
                                                              72e836a4dff5: Layer already exists
5836ece85bfd: Layer already exists
                                                              2fc6383668111 Pushed
                                                              latest: digest: sha256:95469e5956d4c59477d4608F57d152166a7c366692dF236a482443682899de2 size: 1365
                                                              [Pipeline] )
[Pipeline] // withDocker#ngistry
                                                              [Pipeline] )
                                                              [Pipeline] // script
[Pipeline] )
                                                              [Pipeline] // stage
[Pipeline] )
                                                              [Pipeline] // node
[Pipeline] End of Pipeline
                                                              Finished: SUCCESS
```





Hello World!